



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07282551 A

(43) Date of publication of application: 27.10.1995

(51) Int. Cl. G11B 21/02

(21) Application number: 06057233

(22) Date of filing: 05.04.1994

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## (54) ROTARY TYPE ACTUATOR

## (57) Abstract:

**PURPOSE:** To miniaturize a rotating member and simultaneously to make a contribution to an improvement in positioning accuracy regardless of the kinds of bearings by interposing a spring mechanism which is deflected in the rotating direction of a rotational actuating member between the rotational actuating member and the bearing.

**CONSTITUTION:** This rotary type actuator is composed of the bearing 3 for freely rotatably supporting the rotational actuating member 1 to a stationary shaft 2 and the spring mechanism 4 interposed between the bearing 3 and the member 1. The rotating member 1 is composed of nonmagnetic metallic head arms 11 which are provided with prescribed spacings in an axial direction and are arranged in plurality in a relation extending in a radial direction, a carriage 12 which supports the base end side of the respective arms 11 on one end side and a coil 13 of a voice coil motor fixed

by an adhesive to the other end side of the carriage 12. Magnetic heads 14 are mounted at the front ends of the arms 11 in the relation that two pieces each of these heads face each other. The bearing 3 is provided with an inner race and outer race and ball bearings 15 mounted axially in two stages between the inner and outer races. The bearing 3 and the spring mechanism 4 cooperatively act as a spring while the heads 14 are positioned.

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